

## Recovery Plan Action Status

**Plan Name:** Recovery Plan for Upland Species of the San Joaquin Valley, California

**Plan Status:** Final

**Plan Date:** 30-Sep-98

**Lead Agency:** USFWS

**Lead Office:** Sacramento Fish And Wildlife Office

(916)

414-6600 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmate-bracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratooides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratooides), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	1.1	Develop regional cooperative program that coordinates land use planning and biodiversity conservation	Ongoing Not Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Information and Education	Internal Technical Assistance	

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Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratoides)	1	2.1.1	Protect and secure listed species habitat at Elk Hills and Buena Vista Valley	Partially Complete	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, U.S. Department of Energy, Occidental	Acquisition: Easement	Internal Technical Assistance	

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Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> ), San Joaquin woolly-threads ( <i>Monolopia (=Lembertia) congdonii</i> )	1	2.1.10	Protect natural lands in Kettleman Hills	Partially Complete			California Department of Parks and Recreation, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Army Corps of Engineers	Acquisition: Easement	Internal Field Assistance	BLM is lead.
Buena Vista Lake ornate Shrew ( <i>Sorex ornatus relictus</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Tipton kangaroo rat ( <i>Dipodomys nitratoides nitratoides</i> ), San Joaquin woolly-threads ( <i>Monolopia (=Lembertia) congdonii</i> )	3	2.1.11	Protect natural land in Kern NWR-Semitropic Ridge Natural Area	Ongoing Current	FY 1995 - FY 1999		California Energy Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy, Private landowners	Acquisition: Easement	Internal Field Assistance	Acquired 640 acres abutting Kern NWR.
California jewelflower ( <i>Caulanthus californicus</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> ), San Joaquin woolly-threads ( <i>Monolopia (=Lembertia) congdonii</i> )	1	2.1.12	Protect, restore, and enhance the Carrizo Plain Natural Area	Ongoing Current	FY 1995 - FY 1999		California Department of Fish and Game, The Nature Conservancy, U.S. Army Corps of Engineers, Private landowners	Acquisition: Easement	Internal Field Assistance	



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California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	3	2.1.13	Protect natural lands and traditional rangeland uses in the Upper Cuyama Valley	Unknown	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Acquisition: Easement	Contract	
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	1	2.1.14	Protect natural lands in the Ciervo - Panoche Natural Area	Ongoing Not Current	FY 1995 - FY 1999		California Department of Fish and Game, U.S. Army Corps of Engineers, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.1.17	Protect and manage lands appropriately in the Kerman and Alkali Sink ERs	Unknown	FY 1995 - FY 1999		California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	3	2.1.18	Protect and properly manage listed species habitat at Mendota WA	Ongoing Not Current	FY 1995 - FY 1999		California Department of Fish and Game	Acquisition: Management Agreement	Internal Field Assistance	

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Buena Vista Lake ornate Shrew ( <i>Sorex ornatus relictus</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Tipton kangaroo rat ( <i>Dipodomys nitratoides nitratoides</i> )	1	2.1.3	Protect, restore, and enhance upland and wetland communities on Kern Fan Element for Bakersfield smallscale and other species, and consider introduction of Buena Vista Lake shrew	Partially Complete	FY 1995 - FY 1999		Kern County Water Agency, California Department of Water Resources, Kern Water Bank Authority, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, Private landowners	Acquisition: Management Agreement	Internal Field Assistance	Kern water bank has been set up.
California jewelflower ( <i>Caulanthus californicus</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Kern mallow ( <i>Eremalche kernensis</i> ), San Joaquin woolly-threads ( <i>Monolopia (=Lembertia) congdonii</i> )	1	2.1.4	Protect natural lands on Valley floor and piedmont slopes of western Kern Co.	Partially Complete	FY 1995 - FY 1999		California Department of Water Resources, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Administrative	This task is for administrative actions only; depends on 1.2.2
Palmate-bracted bird's beak ( <i>Cordylanthus palmatus</i> ), Fresno kangaroo rat ( <i>Dipodomys nitratoides exilis</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> )	1	2.1.5	Protect natural lands in western Madera Co.	Discontinued	FY 2000 - FY 2004		U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Privately owned grazing land; depends partly on 1.2.2
Palmate-bracted bird's beak ( <i>Cordylanthus palmatus</i> ), Fresno kangaroo rat ( <i>Dipodomys nitratoides exilis</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> )	2	2.1.6	Protect natural lands in northcentral Fresno County	Unknown	FY 1995 - FY 1999		U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Acquisition: Easement	Contract	Depends on 1.2.2

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Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides nitratoides)	1	2.1.7	Protect natural lands in the Pixley NWR-Allensworth NA area	Partially Complete	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Partly depends on 1.2.2
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	2.1.9	Protect and enhance natural lands in Sandy Mush Road and South Grasslands areas, Merced County	Ongoing Current	FY 2000 - FY 2004		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends on 1.2.2
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides nitratoides), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	2.2.10	Protect natural land for multiple species in the Lost Hills-Buena Vista Slough area	Unknown			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
Bakersfield cactus (Opuntia treleasei), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	2.2.12	Protect natural land for Bakersfield cactus and other species in Greater Bakersfield, north of Kern River	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
Bakersfield cactus (Opuntia treleasei), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.2.14	Develop specialty reserve for Bakersfield cactus in Kern Bluffs area	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Management: Habitat Maintenance and Manipulation	Contract	Depends partly on 1.2.2

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Bakersfield cactus (Opuntia treleasei), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.2.22	Protect natural land and establish speciality reserve for Bakersfield cactus at Mettler-Wheeler Ridge area	Unknown			California Department of Water Resources, City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Partly depends on 1.2.2
California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	1	2.2.23	Protect natural communities for California jewelflower and other featured species at Santa Barbara Canyon	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
Fresno kangaroo rat (Dipodomys nitratooides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.2.6	Expand, restore, and protect Fresno kangaroo rat habitat at Lemoore NAS	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, United States Navy	Acquisition: Lease	Contract	Includes management research, retirement of agricultural ground, and adaptive management
Fresno kangaroo rat (Dipodomys nitratooides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.2.7	Protect natural land north of the Tulare Lake Bed for Fresno kangaroo rats and other species in Kings Co.	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Private grazing land
California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratooides nitratooides)	2	2.2.9	Protect natural land for multiple plant species in the Devil's Den area	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2

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Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus)	1	3.2.18	Conduct surveys for upland vertebrates on the northern Valley floor	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	

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Fresno kangaroo rat ( <i>Dipodomys nitratoides exilis</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Tipton kangaroo rat ( <i>Dipodomys nitratoides nitratoides</i> )	3	3.2.19	Conduct surveys for upland vertebrates on the southern Valley floor	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> )	3	3.2.20	Conduct surveys for upland vertebrates on the central western Valley edge	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> ), San Joaquin woolly-threads ( <i>Monolopia (=Lembertia) congdonii</i> )	2	3.2.21	Conduct surveys for upland vertebrates in the Kettleman Hills	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> )	3	3.2.22	Conduct surveys for upland vertebrates on the southwestern Valley edge	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard ( <i>Gambelia silus</i> )	3	3.2.23	Conduct surveys for upland vertebrates on the southeast & southern Valley edge	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> )	3	3.2.24	Conduct surveys for upland vertebrates in the Cuyama Valley	Ongoing Not Current			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Research: Population Surveys	Contract	

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Blunt-nosed leopard lizard (Gambelia silus), Giant kangaroo rat (Dipodomys ingens)	3	3.2.25	Conduct surveys for upland vertebrates in the San Juan Creek watershed	Ongoing Not Current			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Population Surveys	Contract	Includes USDA easement lands
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens)	1	4.11	Conduct multiple research and monitoring tasks for multiple animal and one plant species in the Lokern	Partially Complete	FY 1995 - FY 1999		California Department of Water Resources, California Energy Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Research: Population Surveys	Contract	Research for 5-year minimum; monitoring ongoing
Blunt-nosed leopard lizard (Gambelia silus), Kern mallow (Eremalche kernensis)	1	4.12	Conduct pesticide related research for multiple species in the Lokern	Not Started			California Department of Food and Agriculture, California Environmental Protection Agency, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Environmental Contaminants	Contract	
Blunt-nosed leopard lizard (Gambelia silus), Giant kangaroo rat (Dipodomys ingens)	2	4.14	Conduct multiple research and monitoring tasks for multiple animal species in the Elk Hills - Buena Vista Valley area	Ongoing Current			U.S. Fish and Wildlife Service, Private landowners, U.S. Department of Energy	Research: Competition	Contract	Research 5 years minimum, monitoring ongoing
Blunt-nosed leopard lizard (Gambelia silus), Giant kangaroo rat (Dipodomys ingens)	3	4.2	Conduct censuses for short-nosed kangaroo rats & monitor populations of multiple animal species in the Cuyama Valley	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	3	4.22	Monitor populations of multiple plant & animal species at Wheeler Ridge & Comanche Point	Ongoing Not Current	FY 1995 - FY 1999		California Department of Water Resources, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Contract	

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Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides nitratoides)	1	4.25	Conduct multiple research tasks and monitoring of multiple species at Pixley NWR/Allensworth ER	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: General	Contract	Monitoring ongoing; research 6 years
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens)	3	4.29	Monitor populations of multiple animal species at the Kettleman Hills	Not Started			California Department of Water Resources, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Contract	
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	4.33	Conduct multiple research tasks and monitoring for palmate-bracted bird's-beak and multiple animal species at Alkali Sink ER	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Status	Contract	
Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus)	1	4.34	Conduct multiple research tasks in the Kerman and Alkali Sink ERs for multiple plant and animal species	Unknown			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Status	Contract	Monitoring ongoing; research 5 years, CDFG Lead
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	4.35	Conduct multiple research tasks and monitoring for multiple plant and animal species in western Madera County	Not Started			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Research: Demographic Studies	Contract	Monitoring ongoing, research 5-10 years



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California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	4.4	Conduct multiple research and monitoring tasks for multiple animal species on the Carrizo Plain	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy	Research: Habitat Status	Graduate Student	Monitoring ongoing, research for 5 years. Giant kangaroo rat study started in 2008.
Blunt-nosed leopard lizard (Gambelia silus)	3	4.51	conduct metapopulations genetics research on the blunt-nosed leopard lizard	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard (Gambelia silus)	3	4.79	conduct a single-metapopulation viability analysis on the blunt-nosed leopard lizard	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Other Information	Contract	
Palmate-bracted bird's beak (Cordylanthus palmatus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens)	2	5.1.1	Restore habitat and habitat linkages for kit foxes on the Valley floor, western Fresno County	Not Started			U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, Private landowners	Acquisition: Management Agreement	Contract	Depends partly on 1.2.2
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides)	2	5.1.2	Establish linkage along Carces Highway Corridor for multiple animal species	Ongoing Current			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends on 1.2.2 and 1.2.6
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides)	3	5.1.3	Protect & restore habitat & habitat linkages along Hwy 43 Corridor for Tipton kangaroo rat, blunt-nosed leopard lizard, San Joaquin kit fox & other species	Unknown	FY 2006		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Management Agreement	Contract	Depends partly on 1.2.2 and 1.2.6

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Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> )	2	5.1.5	Link Kettleman Hills with Gujarral and Coalinga Hills and Anticline Ridge by restoring and protecting habitat for upland species	Unknown			City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Management Agreement	Contract	Depends partly on 1.2.2
Palmate-bracted bird's beak ( <i>Cordylanthus palmatus</i> ), Fresno kangaroo rat ( <i>Dipodomys nitratoides exilis</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> )	2	5.1.7	Enhance natural values of Cowchilla Bypass easement properties as a linkage for listed species	Unknown			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation	Contract	Graze outer banks of levee, should generate revenue
Palmate-bracted bird's beak ( <i>Cordylanthus palmatus</i> ), Fresno kangaroo rat ( <i>Dipodomys nitratoides exilis</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> )	2	5.1.8	Establish linkage between northwestern and northeastern Valley edges through Sandy Mush Road area	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Management Agreement	Contract	Depends on 1.2.2

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Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmate-bracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratooides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratooides), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	3	5.2	Reintroduce featured species to restored habitat within linkages	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Management Agreement	Contract	
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens)	3	5.3.10	Maintain & enhance habitat linkages for upland species between CPNA & Cuyama Valley	Unknown	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	

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Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> ), Tipton kangaroo rat ( <i>Dipodomys nitratoides</i> ), San Joaquin woolly-threads ( <i>Monolopia</i> (=Lembertia) congdonii)	3	5.3.12	Maintain and enhance habitat linkages for upland species in the San Juan Creek watershed, San Luis Obispo Co.	Ongoing Not Current			City governments, County governments, U.S. Department of Agriculture, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
Bakersfield cactus ( <i>Opuntia treleasei</i> ), California jewelflower ( <i>Caulanthus californicus</i> ), Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> )	2	5.3.3	Protect grassland and oak savana on east and southeastern edge of Valley for several listed species	Discontinued	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> ), San Joaquin woolly-threads ( <i>Monolopia</i> (=Lembertia) congdonii)	2	5.3.5	Protect grass and shrubland communities on western Valley floor edge, Panoche Creek to Ciervo Wash	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
Blunt-nosed leopard lizard ( <i>Gambelia silus</i> ), San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> ), Giant kangaroo rat ( <i>Dipodomys ingens</i> ), San Joaquin woolly-threads ( <i>Monolopia</i> (=Lembertia) congdonii)	2	5.3.6	Protect grass and shrubland communities on western Valley edge, Ciervo Wash to Coalinga	Unknown			City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2

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California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	5.3.7	Protect grass and shrubland communities on weatern Valley edge, Coalinga to McKittrick	Discontinued	FY 1995 - FY 1999		City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	5.3.8	Protect grass and shrubland communities on southwestern Valley edge from McKittrick to Maricopa and eastward and northward to Kern River, east of Bakersfield	Planned			California Department of Water Resources, Unknown, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2

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